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(12) **United States Patent**  
**Hung**

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(54) **SYSTEM FOR ANTENNA EXTENSION AND METHOD THEREOF**

(56) **References Cited**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1 day.

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(57) **ABSTRACT**

(51) **Int. Cl.**  
**H04M 1/00** (2006.01)

(52) **U.S. Cl.**  
USPC ..... **455/556.1**; 455/575.7

(58) **Field of Classification Search**  
USPC ..... 455/129, 575.7, 269, 556.1, 557;  
343/702

A system for antenna extension and a method adapted for antenna extension operation under a specific communication protocol are provided. The antenna extension system combines a handheld communication device with a base device, and determines if the total antenna number of the handheld communication device and the base device matches the standard antenna number of the specific communication protocol. If the total antenna number of the handheld communication device and the base device matches the standard antenna number of the specific communication protocol, the antenna extension system enables the antenna extension operation.

See application file for complete search history.

**11 Claims, 7 Drawing Sheets**

